



DEPARTMENT OF PERMITTING, ENVIRONMENT, AND REGULATORY  
AFFAIRS (PERA)  
BOARD AND CODE ADMINISTRATION DIVISION

## NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY  
PRODUCT CONTROL SECTION  
11805 SW 26 Street, Room 208  
Miami, Florida 33175-2474  
T (786) 315-2590 F (786) 315-2599  
[www.miamidade.gov/pera/](http://www.miamidade.gov/pera/)

**Gorell Windows & Doors, LLC**  
1380 Wayne Avenue  
Indiana, PA 15701

### SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County PERA - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. PERA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

### DESCRIPTION: Series "19044" Clipped Extruded Aluminum Tube Mullion – L.M.I.

**APPROVAL DOCUMENT:** Drawing No. 100079D, titled "19044 Mullion – FBC Installation Drawings," sheets 1 through 4 of 4, dated 12/01/10 with revision #1 dated 09/01/11, prepared by manufacturer, signed and sealed by Joshua M. Royce, P.E., bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Section.

### MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official. This NOA consists of this page 1 and evidence page E-1, as well as approval document mentioned above. The submitted documentation was reviewed by **Manuel Perez, P.E.**



NOA No. 11-0201.04  
Expiration Date: November 17, 2016  
Approval Date: November 17, 2011  
Page 1

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Manufacturer's die drawings and sections.
2. Drawing No. **100079D**, titled "19044 Mullion – FBC Installation Drawings" Sheets 1 through 4 of 4, dated 12/01/10 with revision #1 dated 09/01/11, prepared by manufacturer, signed and sealed by Joshua M. Royce, P.E.

**B. TESTS**

1. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94  
2) Large Missile Impact Test per FBC, TAS 201-94  
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
along with marked-up drawings and installation diagram of two series 5401 white PVC fixed windows mulled together using a series 19044 aluminum mullion, prepared by Architectural Testing, Inc., Test Report No. **ATI-B1382.01-501-18**, dated 07/14/11, signed and sealed by Michael D. Stremmel, P.E.

**C. CALCULATIONS:**

1. Anchor verification calculations and structural analysis, complying with the FBC-2007 and FBC 2010, dated 09/17/10 and 11/08/11, prepared, signed and sealed by Joshua M. Royce, P.E.

**D. QUALITY ASSURANCE**

1. Miami-Dade Department of Permitting, Environment, and Regulatory Affairs (PERA).

**E. MATERIAL CERTIFICATIONS**

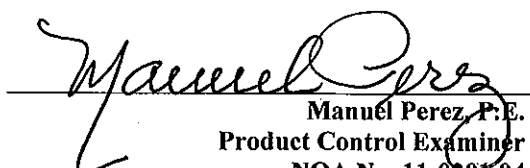
1. None.

**F. STATEMENTS**

1. Statement letter of conformance to the FBC 2007 and FBC 2010, dated November 08, 2011, signed and sealed by Joshua M. Royce, P.E.
2. Statement letter of no financial interest, dated September 01, 2011, signed and sealed by Joshua M. Royce, P.E.
3. Laboratory compliance letter for Test Report No. **ATI-B1382.01-501-18**, issued by Architectural Testing, Inc., dated August 01, 2011, signed and sealed by Michael D. Stremmel, P.E.

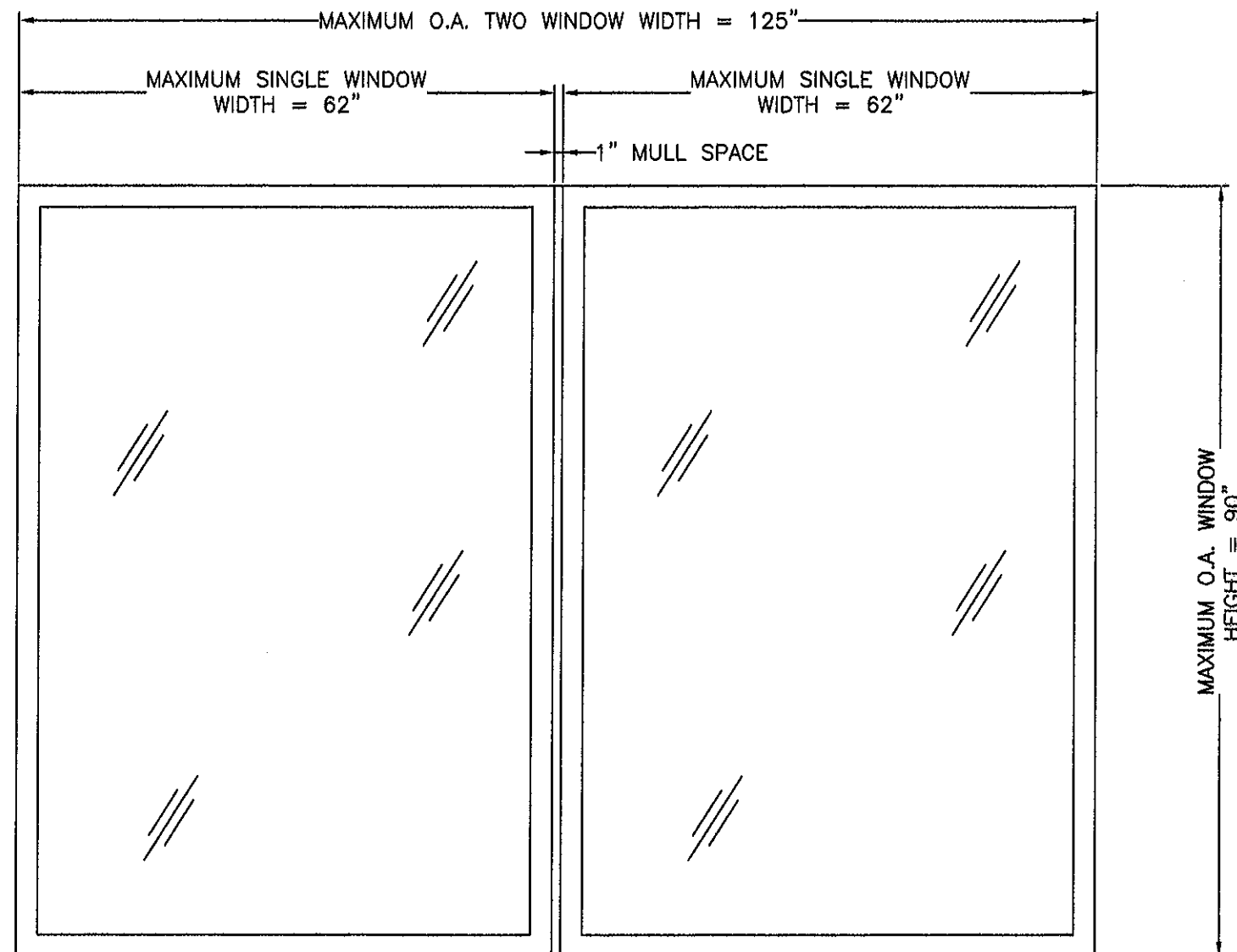
**G. OTHERS**

1. None.

  
Manuel Perez, P.E.  
Product Control Examiner  
NOA No. 11-0201.04  
Expiration Date: November 17, 2016  
Approval Date: November 17, 2011

# 19044 MULLION

## FBC PRODUCT APPROVAL DRAWINGS



19044 LARGE MISSILE  
IMPACT MULLION

TYPICAL ELEVATION EXTERIOR VIEW DOUBLE SHOWN,  
MULTIPLES ARE APPROVED, SEE NOTE 10 SHEET 1

### NOTES:

1. THE PRODUCT ILLUSTRATED HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE REQUIREMENTS FOR THE 2007 AND 2010 FLORIDA BUILDING CODE INCLUDING HVHZ.
2. WOOD FRAMING/2X BUCK, STEEL STUD OR MASONRY/CONCRETE OPENING TO BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO STRUCTURE. WOOD FRAMING/2X BUCK, STEEL STUD OR MASONRY/CONCRETE OPENING IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
3. ALLOWABLE STRESS INCREASE OF 1/3 WAS NOT USED IN THE DESIGN OF THE PRODUCT SHOWN HEREIN. WIND LOAD DURATION FACTOR OF  $C_d=1.6$  WAS USED FOR WOOD ANCHOR CALCULATIONS.
4. MULLION MATERIAL: EXTRUDED 6063-T5 ALUMINUM
5. THIS PRODUCT IS IMPACT RESISTANT AND THEREFORE AN APPROVED IMPACT PROTECTION SYSTEM IS NOT REQUIRED FOR THIS PRODUCT IF IT IS INSTALLED IN A WIND BORNE DEBRIS AREA.
6. DESIGN PRESSURE AND INSTALLATION DETAILS SHOWN IN THIS DOCUMENT APPLY ONLY TO THE MULLION. WINDOWS MUST BE APPROVED UNDER SEPARATE APPROVALS.
7. INSTALLATION DETAILS ARE FOUND ON SHEET 2 OF 3.
8. WINDOW UNITS TO BE MULLED ARE NOT LIMITED TO THOSE SHOWN IN THESE DRAWINGS. SINGLE UNITS TO BE MULLED TOGETHER MUST BE MANUFACTURED BY GORELL AND MUST BE MADE OUT OF PVC WITH THE MULLION BEING EXTRUDED 6063-T5 ALUMINUM.
9. DESIGN PRESSURE OF MULLED UNIT SHALL BE CONTROLLED BY THE LESSER DESIGN PRESSURE OF THE MULLION OR THE INDIVIDUAL WINDOW UNIT.
10. TWIN CONFIGURATION IS SHOWN IN THE DRAWINGS. UNITS MAY BE MULLED TOGETHER INDEFINITELY PROVIDED THE SINGLE UNIT WIDTH AND HEIGHT ARE NOT EXCEEDED AND MULL IS ANCHORED AS SHOWN.
11. MULLION VERTICAL INSTALLATION IS SHOWN. MULLION MAY BE USED IN A HORIZONTAL APPLICATION PROVIDED THE SINGLE UNIT WINDOW DIMENSIONS ARE NOT EXCEEDED AND THE MULLION IS ANCHORED AS SHOWN IN THIS DOCUMENT.
12. INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH THE ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BELOW:
  - A. WOOD - MINIMUM SPECIFIC GRAVITY OF  $G=0.42$
  - B. CONCRETE - MINIMUM COMPRESSIVE STRENGTH OF 3,350 PSI.
  - C. MASONRY - STRENGTH CONFORMS TO ASTM C-90, GRADE N, TYPE 1 OR GREATER
  - D. METAL STUD - 16 GA. 0.060" MINIMUM THICKNESS

Approved as complying with the  
Florida Building Code  
Date Nov. 17, 2011  
NOA# 11-0201-04  
Miami Dade Product Control

By Manuel Perez

### DRAWINGS TABLE OF CONTENTS

SHEET 1: ELEVATION AND GENERAL NOTES  
SHEET 2: BOM AND COMPONENTS  
SHEET 3: INSTALLATION DETAILS  
SHEET 4: DESIGN PRESSURE CHART

JOSHUA ROYCE, P.E. (FL PE 68180)

### REVISIONS

### DATE

### MATERIAL

EST. AREA

EST. WT.

EST. PERIM.

DRAWN BY

DATE

1 MODIFIED PER MIAMI DADE REQUEST

09/01/11

JMR

12/01/10

Gorell

CUSTOM WINDOWS & DOORS  
GORELL ENTERPRISES, INC.  
1380 WAYNE AVENUE INDIANA PA 15701

19044 MULLION  
FBC INSTALLATION DRAWINGS  
GENERAL NOTES

SCALE  
NTS

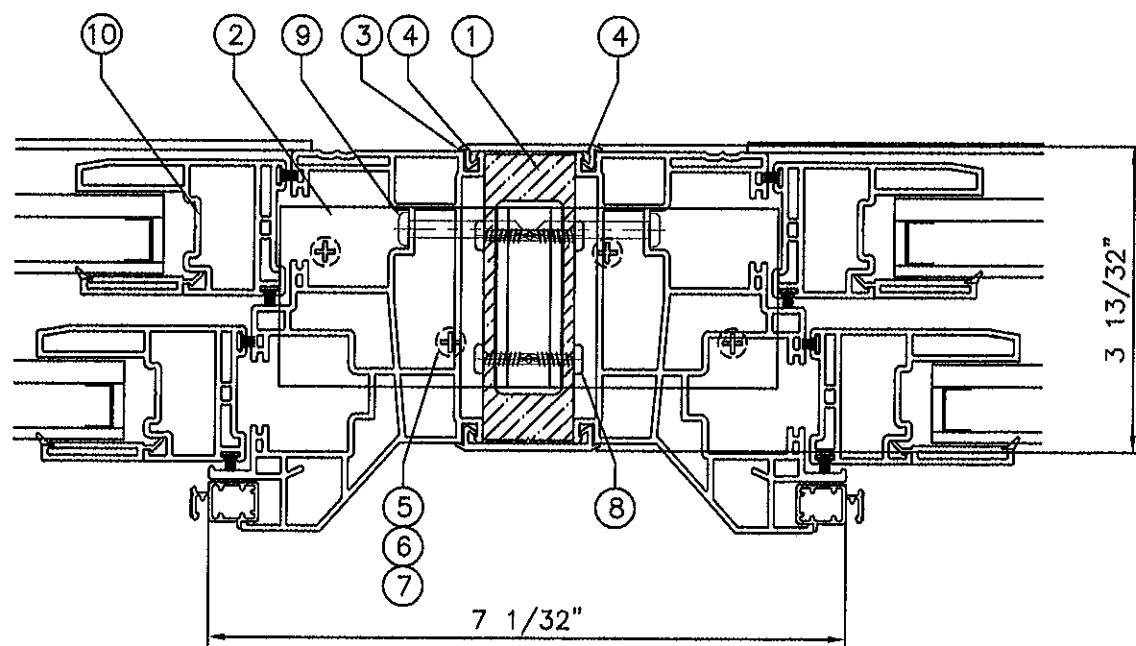
DWG NO.  
100079D

SHEET NO.  
1 OF 4

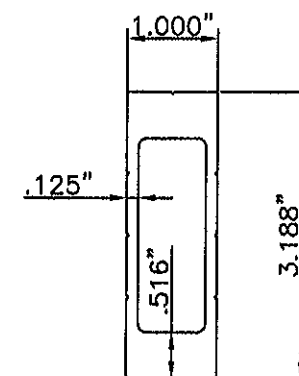
EXTRUSION NO.

REV.

	10	VARIOUS		HEAD, SILL, JAMB, FRAME	PVC	GORELL
	9	48128	2	#10 X 1-1/2" PPH	STEEL	
	8	48019	4	#10 X 1/2" PPH	STEEL	
	7		4	#12 TEKS SCREW	STEEL	ITW
	6		4	#12 CUT THREAD WOOD SCREW	STEEL	
	5		4	1/4" ITW TAPCON	STEEL	ITW
	4		2	MULLION GLAZING		
	3		2	TRIM COVER	PVC	GORELL
	2	18102	1	MULLION CLIP	6063-T5	GORELL
	1	19044	1	MULLION	6063-T5	GORELL
REV	ITEM	P/N EXTRU.	QTY	DESCRIPTION	MAT'L	VENDOR

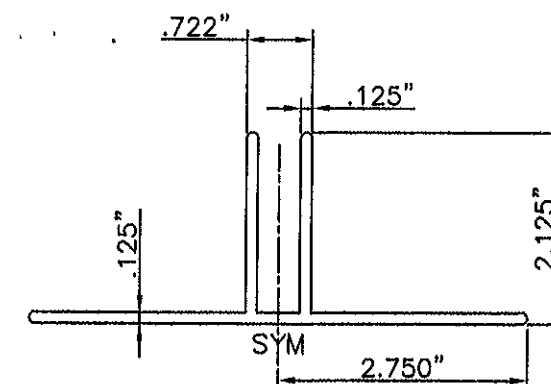


MULLION CROSS SECTION

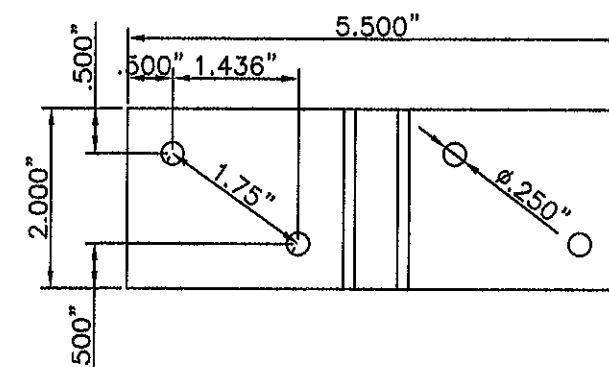


① 19044 WINDOW MULLION  
6063-T5 ALUMINUM

MULLION MECHANICAL PROPERTIES:  
I<sub>xx</sub> = 2.077 IN<sup>4</sup>  
S<sub>xx</sub> = 1.303 IN<sup>3</sup>


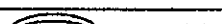


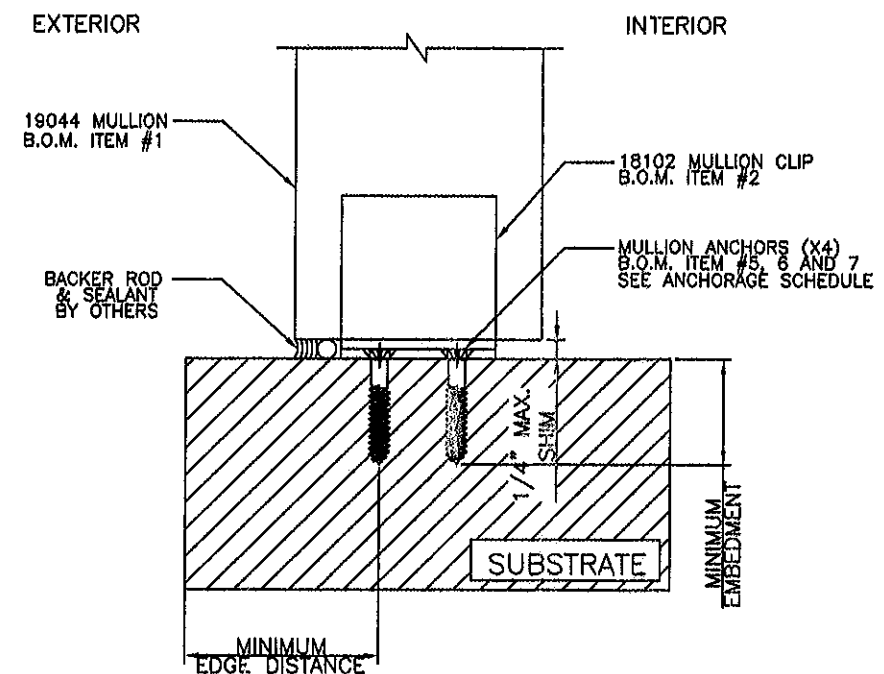
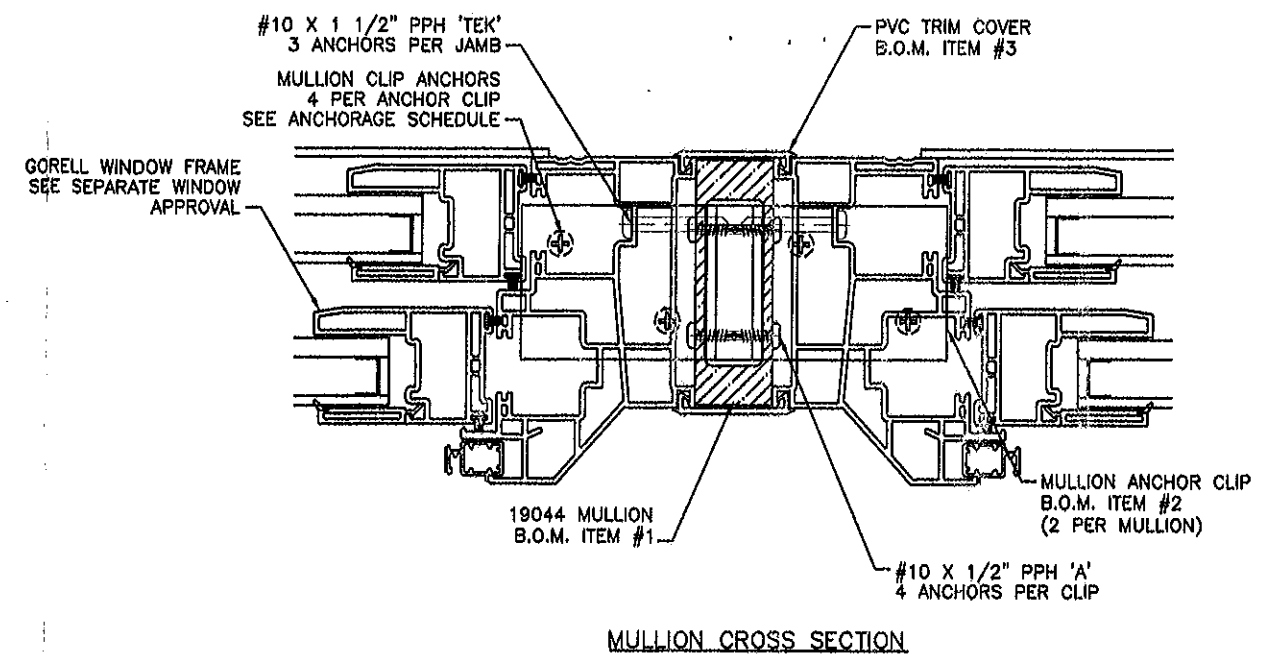
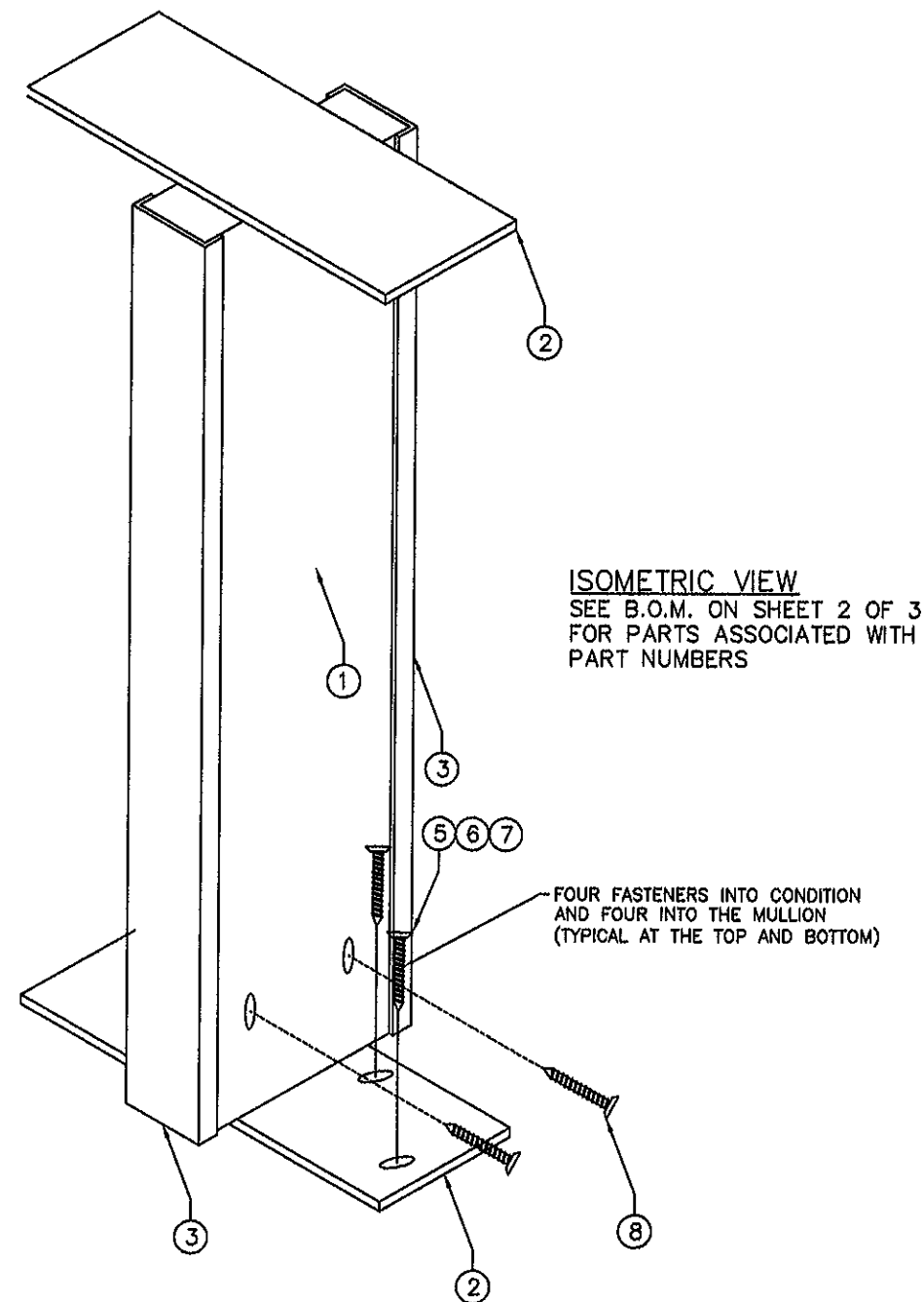
② 18102 MULLION CLIP  
6063-T5 ALUMINUM



③ TRIM COVER  
PVC

Approved as complying with the  
Florida Building Code  
Date NOV. 17, 2011  
NOAH 11-0201-04  
Miami Dade Product Control  
By Manuel Perez

 JOSHUA ROYCE, P.E. (FL PE 68180)	REVISIONS		DATE	MATERIAL		 CUSTOM WINDOWS & DOORS GORELL ENTERPRISES, INC. 1380 WAYNE AVENUE INDIANA PA 15701	SCALE NTS	
				EST. AREA			DWG NO. 100079D	
				EST. WT.		19044 MULLION FBC INSTALLATION DRAWINGS B.O.M, COMPONENTS & CROSS SECTION	SHEET NO. 2 OF 4	
				EST. PERIM.			EXTRUSION NO.	
	1	MODIFIED PER MIAMI DADE REQUEST	09/01/11	DRAWN BY JMR	DATE 12/01/10		REV.	



ANCHORAGE SCHEDULE AND DESCRIPTION				
SUBSTRATE	ANCHOR	EMBEDMENT	ANCHOR SPACING	EDGE DISTANCE
WOOD FRAMING	#12 WOOD SCREW	MINIMUM 1-1/2"	MINIMUM 1-1/2"	MINIMUM 2"
CONCRETE/MASONRY	1/4" TAPCON	MINIMUM 1-1/4"	MINIMUM 1-3/4"	MINIMUM 2-1/2"
STEEL STUD	#12 TEKS SCREW	MINIMUM 1"	MINIMUM 1-1/2"	MINIMUM 2"

Approved as complying with the  
Florida Building Code  
Date Nov. 17, 2011  
NOA# 11-0261.04  
Miami Dade Product Control  
By Manuel Perez

JOSHUA ROYCE, P.E. (FL PE 08180)

REVISIONS		DATE	MATERIAL
			EST. AREA
			EST. WT.
			EST. PERIM.
1	MODIFIED PER MIAMI DADE REQUEST	09/01/11	DRAWN BY JMR DATE 12/01/10

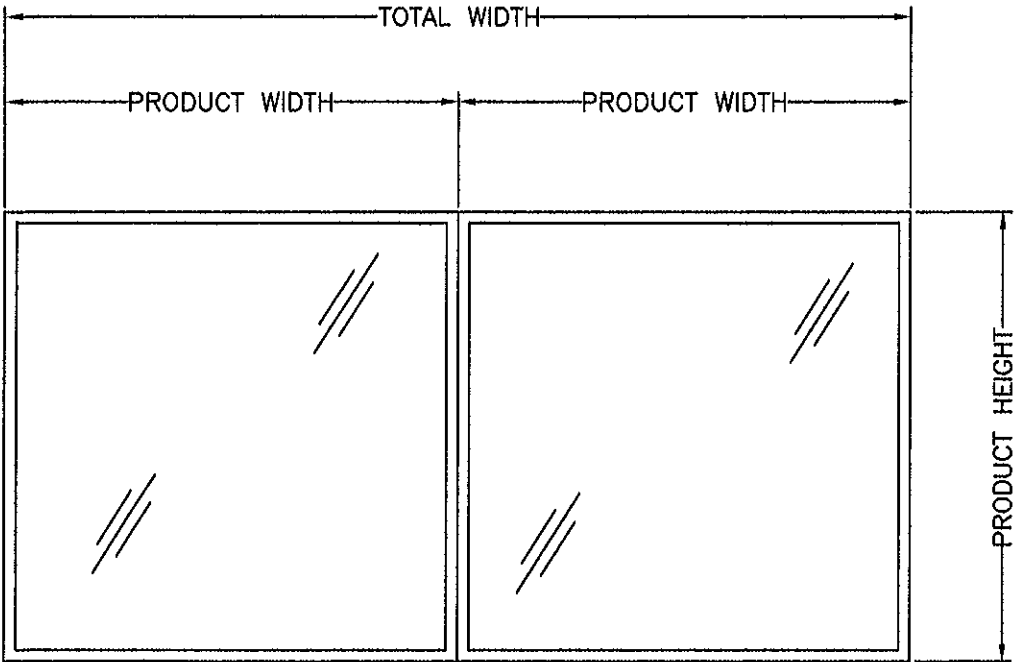
**Gorell**  
CUSTOM WINDOWS & DOORS  
GORELL ENTERPRISES, INC.  
1380 WAYNE AVENUE, RIDGWAY, PA 15071

19044 MULLION  
FBC INSTALLATION DRAWINGS  
INSTALLATION DETAILS AND DESIGN PRESSURE CHART




SCALE	NTS
DWG NO.	100079D
SHEET NO.	3 OF 4
EXTRUSION NO.	REV.

MAXIMUM DESIGN PRESSURE CAPACITY CHART (+/- PSF)  
19044 MULLION

		PRODUCT WIDTH (IN)													
		36	38	40	42	44	46	48	50	52	54	56	58	60	62
PRODUCT HEIGHT (INCH)	60	75	75	75	75	75	75	75	75	75	75	75	75	75	75
	62	75	75	75	75	75	75	75	75	75	75	75	75	75	75
	64	75	75	75	75	75	75	75	75	75	75	75	75	75	75
	66	75	75	75	75	75	75	75	75	75	75	75	75	75	75
	68	75	75	75	75	75	75	75	75	75	74	73	72	71	70
	70	75	75	75	75	75	75	73	72	70	69	67	66	66	65
	72	75	75	75	75	73	71	69	67	65	64	63	62	61	60
	74	75	75	74	71	68	66	64	63	61	60	59	58	57	56
	76	75	72	69	67	64	62	60	59	57	56	55	54	53	52
	78	71	68	65	63	61	59	57	55	54	53	52	51	50	49
	80	68	65	62	60	57	56	54	52	51	50	49	48	47	46
	82	64	61	59	56	54	53	51	49	48	47	46	45	44	43
	84	61	58	56	54	52	50	48	47	45	44	43	42	41	41
	86	58	55	53	51	49	47	46	44	43	42	41	40	39	38
	88	55	53	50	48	47	45	43	42	41	40	39	38	37	36
	90	52	50	48	46	44	43	41	40	39	38	37	36	35	34



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NOA# 11-0201.04  
Miami Dade Product Control  
By Maurice P. [Signature]

  JOSHUA ROYCE, P.E. (FL PE 68180)	REVISIONS		DATE	MATERIAL		 CUSTOM WINDOWS & DOORS GORELL ENTERPRISES, INC. 1380 WAYNE AVENUE INDIANA PA 15701	SCALE NTS	
				EST. AREA			DWG NO. 100079D	
				EST. WT.		19044 MULLION FBC INSTALLATION DRAWINGS	SHEET NO. 4 OF 4	
				EST. PERIM.			EXTRUSION NO.	
				DRAWN BY JMR	DATE 12/01/10		REV.	
	1	MODIFIED PER MIAMI DADE REQUEST	09/01/11					